Title (en)
   Negotiation of sleep intervals in a network

Title (de)
   Verhandlung von Ruheintervallen in einem Netzwerk

Title (fr)
   Négotiation des intervalles de veille dans un réseau

Publication
   EP 2357755 A1 20110817 (EN)

Application
   EP 11159984 A 20070302

Priority
   • EP 07757806 A 20070302
   • US 77923506 P 20060303
   • US 77982406 P 20060307

Abstract (en)
   Techniques to improve the standby time of a station in a wireless network are described. An access point may advertise or convey a maximum listen interval and/or an association timeout supported by that access point. A station may operate in a power-save mode and may wake up every listen interval to receive a beacon and any potential traffic for the station. The station may select a suitable listen interval based on the maximum listen interval. The station may be dormant for a longer duration than the listen interval and may become active at least once in every association timeout in order to keep the association with the access point alive. The access point may also send broadcast and multicast traffic that might be of interest to stations in the power-save mode less frequently and using a special indication message.

IPC 8 full level
   H04L 12/66 (2006.01); **H04L 12/12** (2006.01)

CPC (source: CN EP KR US)
   H04L 65/611 (2022.05 - KR); **H04W 52/0216** (2013.01 - CN EP US); **H04W 52/0225** (2013.01 - EP US); **H04W 52/04** (2013.01 - KR); **H04W 84/12** (2013.01 - CN EP US); Y02D 30/70 (2020.08 - CN EP US)

Citation (search report)
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   • [Y] JING AI ET AL: "An adaptive coordinated medium access control for wireless sensor networks", COMPUTERS AND COMMUNICATIONS, 2004. PROCEEDINGS. ISCC 2004. NINTH INTERNATIONAL SYMPOSIUM ON ALEXANDRIA, EGYPT JUNE 28 - JULY 1, 2004, PISCATAWAY, NJ, USA,IEEE, vol. 1, 28 June 2004 (2004-06-28), pages 214 - 219, XP010741922, ISBN: 0-7803-8623-X

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Designated contracting state (EPC)
   AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
   WO 2007103794 A2 20070913; **WO 2007103794 A3 20071101**; CN 102611996 A 20120725; CN 102611996 B 20150819; CN 105007615 A 20151028; CN 105578577 A 20160511; DK 2346208 T3 20130805; DK 2357755 T3 20130805; DK 2451115 T3 20140210; DK 2509258 T3 20140106; EP 1999888 A2 20081210; EP 1999888 B1 20120808; EP 2346208 A1 20110720; EP 2346208 B1 20130501; EP 2357755 A1 20110817; EP 2357755 B1 20130501; EP 2451115 A1 20120509; EP 2451115 B1 20131120; EP 2509258 A1 20121010; EP 2509258 B1 20130918; ES 2392878 T3 20121214; ES 2423837 T3 20130924; ES 2424006 T3 20130926; ES 2440085 T3 20140127; ES 2447300 T3 20140311; HK 1160308 A1 20120810; HK 1161455 A1 20120824; HK 1173602 A1 20130516; HK 1211772 A1 20160527; HK 1219607 A1 20170407; JP 2009529299 A 20090813; JP 2013059076 A 20130328; JP 5265387 B2 20130814; JP 5529238 B2 20140625; KR 101097657 B1 20111222; KR 20080113045 A 20081226; PL 2346208 T3 20130930; PL 2357755 T3 20130930; PL 2451115 T3 20140430; PL 2509258 T3 20140331; PT 2346208 E 20130802; PT 2357755 E 20130802; PT 2451115 E 20131129; PT 2509258 E 20131106; TW 200746675 A 20071216; TW 201218662 A 20120501; TW 201524242 A 20150616; TW I378666 B 20121201; TW I479820 B 20150401; US 2007297438 A1 20071227; US 2012176949 A1 20120712; US 2014064173 A1 20140306; US 8611970 B2 20131217; US 8880104 B2 20141104; US 9439146 B2 20160906

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   US 2007063190 W 20070302; CN 201210025795 A 20070302; CN 201510431941 A 20070302; CN 201610109202 A 20070302; DK 11159984 T 20070302; DK 11159986 T 20070302; DK 12152876 T 20070302; DK 12174765 T 20070302; EP 07757806 A 20070302; EP 11159984 A 20070302; EP 11159986 A 20070302; EP 12152876 A 20070302; EP 12174765 A 20070302; ES 07757806 T 20070302; ES 11159984 T 20070302; ES 11159986 T 20070302; ES 12152876 T 20070302; ES 12174765 T 20070302; HK 12100690 A 20120120; HK 12101594 A 20120217; HK 13100627 A 20130115; HK 15112221 A 20151211; HK 16107461 A 20160627; JP 2008558477 A 20070302; JP 2012236762 A 20121026; KR 20087024223 A 20070302; PL 11159984 T 20070302; PL 11159986 T 20070302; PL 12152876 T 20070302; PL 12174765 T 20070302; PT 11159984 T 20070302; PT 11159986 T 20070302; PT 12152876 T 20070302; PT 12174765 T 20070302; TW 101101854 A 20070303; TW 104106949 A 20070303; TW 96107443 A 20070303; US 201213429116 A 20120323; US 201314076157 A 20131108; US 68030207 A 20070228